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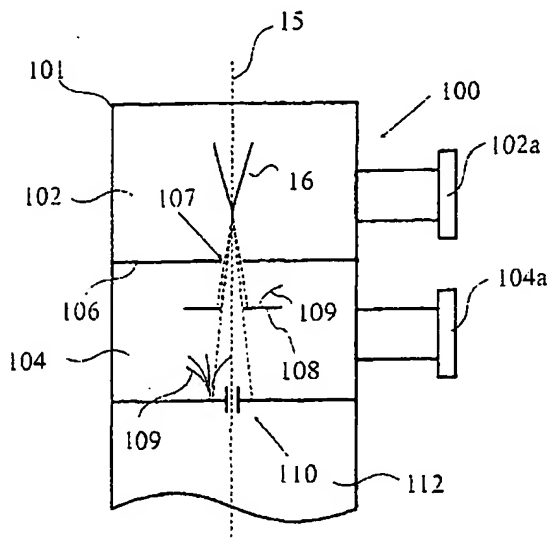
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(54) Title: CHAMBER WITH LOW ELECTRON STIMULATED DESORPTION



(57) Abstract: The present invention provides a charged particle emission component (100) for providing a charged particle beam (17) to a chamber of a charged particle beam column. The device comprises a gun chamber for housing the charged particle emission component; an emitter (16) for emitting a beam of charged particles; at least one beam shaping element (109; 18; 108; 402); and a residual gas diffusion barrier (106; 206) directly subsequent the emitter.